PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
PP20107.004	ACTION as well	l as, where applicable, item 5 below.				
International application No.	national application No. International filing date (day/month/year) (Earliest) Priority Date (day/m					
PCT/US2004/037152	/US2004/037152 04/11/2004 04/11/2003					
Applicant						
CHIRON CORPORATION						
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This International Search Report consists	of a total of sheets.					
X It is also accompanied by	a copy of each prior art document cited in this	report.				
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
The international this Authority (Rul		ation of the international application furnished to				
b. X With regard to any nucleo	otide and/or amino acid sequence disclosed	in the international application, see Box No. I.				
2. X Certain claims were four	nd unsearchable (See Box II).					
3. Unity of invention is lack	king (see Box III).					
4. With regard to the title,						
X the text is approved as su	bmitted by the applicant.					
the text has been establis	hed by this Authority to read as follows:					
*						
5. With regard to the abstract,						
X the text is approved as su	bmitted by the applicant.					
	hed, according to Rule 38.2(b), by this Authori m the date of mailing of this international sear					
6. With regard to the drawings ,						
	a. the figure of the drawings to be published with the abstract is Figure No					
as suggested by t						
	s Authority, because the applicant failed to sug					
	s Authority, because this figure better characte e published with the abstract.	nizes die invendon.				
inche of the figures is to be	s pasiioned with the abstract.					





International application No.

PCT/US2004/037152

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X in computer readable form
	c.	time of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	ional comments:

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nternational Application No PCT/US2004/037152

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K39/395 C12N5/20
//C07K16/28

A61P33/06

A61P35/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \ C07K \ A61K$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, Sequence Search, PAJ

C. DOCUM	C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Х	WO 02/28904 A (CHIRON CORPORATION; CHU, KETING; WANG, CHANGYU; YOSHIHARA, CORRINE; DO) 11 April 2002 (2002-04-11) pages 1,9 page 30	1-54	
X	WO 01/83755 A (GEMINI SCIENCE, INC; MIKAYAMA, TOSHIFUMI; TAKAHASHI, NOBUAKI; CHEN, XI) 8 November 2001 (2001-11-08) page 2 - page 3 page 10 - page 13; figure 1	1-54	
X	WO 02/088186 A (KIRIN BEER KABUSHIKI KAISHA; MIKAYAMA, TOSHIFUMI; YOSHIDA, HITOSHI; FO) 7 November 2002 (2002-11-07) example 14 -/	1-54	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family 	
Date of the actual completion of the international search	Date of mailing of the international search report	
27 April 2005	20/06/2005	
Name and mailing address of the ISA	Authorized officer	
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Wagner, R	

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0./0	AND DOCUMENTS CONCIDENTS TO BE SELECTED.	PC1/US2UU4/U3/152
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	-& EP 1 391 464 A (KIRIN BEER KABUSHIKI KAISHA) 25 February 2004 (2004-02-25) example 14	1-54
A	ELLMARK PETER ET AL: "Modulation of the CD40-CD40 ligand interaction using human anti-CD40 single-chain antibody fragments obtained from the n-CoDeR phage display library" IMMUNOLOGY, vol. 106, no. 4, August 2002 (2002-08), pages 456-463, XP002326342 ISSN: 0019-2805 figures 1,3	1-54
Α	HAGER A -C MALMBORG ET AL: "Affinity and epitope profiling of mouse anti-CD40 monoclonal antibodies." SCANDINAVIAN JOURNAL OF IMMUNOLOGY, vol. 57, no. 6, June 2003 (2003-06), pages 517-524, XP002326343 ISSN: 0300-9475 the whole document	1-11, 33-40

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 12-31,41-44 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). .
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
[——]
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.